ETTEL, Viktor
CHEMISTRY

DECEASED

RAKOVSKIY, E.; ETTER, V., tekhnik

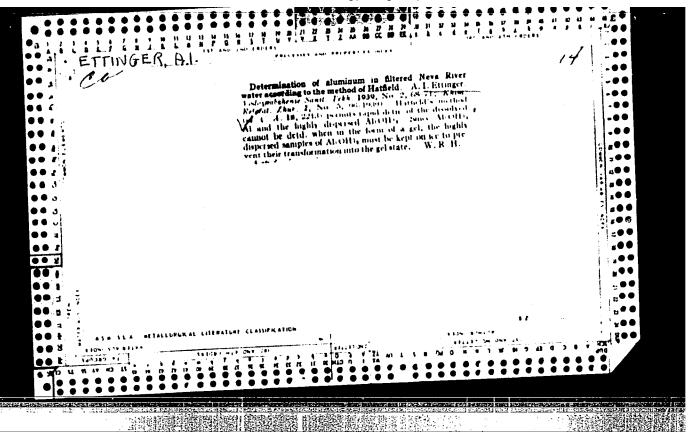
Universal fastening of molds to vibrating platforms. Avt.dor. 28 no.3:15 Mr 165. (MIRA 18:5)

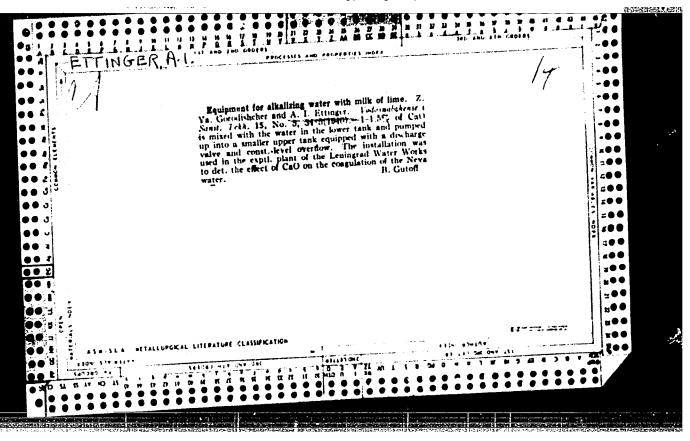
1. Nachal'nik tsentral'noy laboratorii Upravleniya stroitel'stva No.9 Glavnogo upravleniya po stroitel'stva avtomobil'nykh dorog soyuznogo znacheniya (for Rakovskiy). 2. "Sentral'naya laboratoriya Upravleniya stroitel'stva No.9 Glavnogo upravleniya po stroitel'stva avtomobil'nykh dorog soyuznogo znacheniya (for Etter).

### ETTINGER, Alfred; CHYLEWSKI, Wlodzimierz

Miciology, pathogenesis, clinical aspects, and prevention of occupational skin disease in dye workers. Przegl. derm. 4 no.1: 31-37 Ja-F 154.

1. Z Kliniki Dermatologicznej Akademii Medycznej w Lodzi.
Dyrektor: prof. dr S.Kapuscinski.
(DYES, injurious effects,
\*skin dis. in workers)
(OCCUPATIONAL DISHASES,
\*skin dis. in dye workers)
(SKIN, diseases,
\*occup. dye lesions in workers)





ETTIMER, A.[I.]

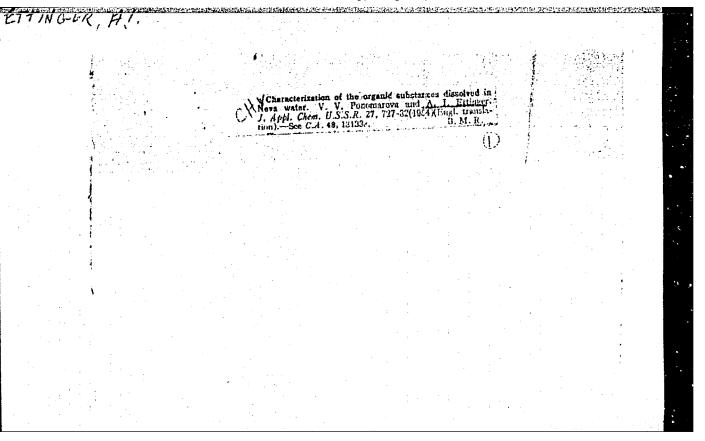
BULYGIN, A., GORODISHCER, Z., and ETTINGER, A. "Contamination of the sand of a high-speed nonagitating filter, and chemical methods of purifying it", raterialy pokommunal. khoz-vu, 1949, Collection 2, p. 30-36.

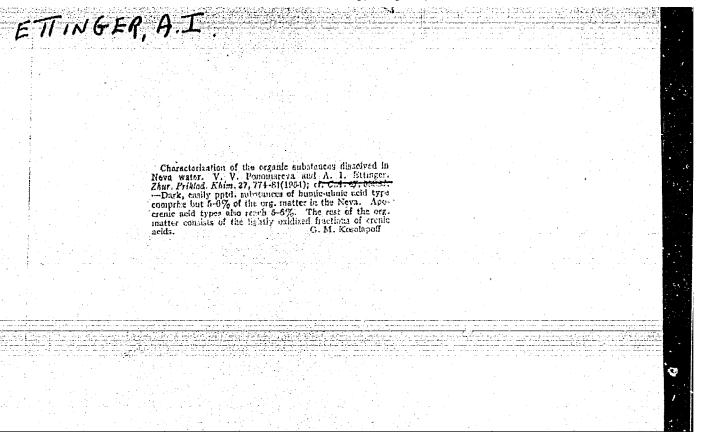
30: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1947).

ETTINGER, A.I.

- 1. PONOMAREVA, V. V.; ETTINGER, A. I.
- 2. USSR 600
- h. Neva River Water Composition
- 7. Nature of organic substances dissolved in Neva waters, Dokl. AN SSSR, 88, No. 1

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.





#### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041223

AID P - 3656

Subject

11/1/1/

: USSR/Medicine

Card 1/1

Pub. 37 - 2/19

Authors

: Bolotnyy, V. V., Ettinger, A. I., Kupperberg, L. S., Scientific Workers

Title

: Disinfection of drinking water by hydrogen peroxide

Periodical

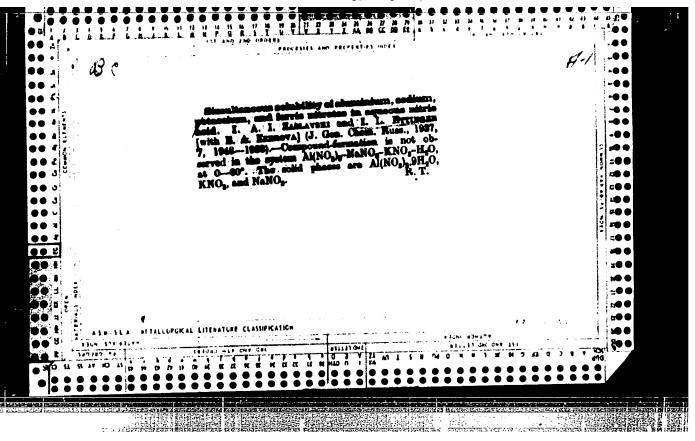
: Gig. 1. san., 11, 7-9, N 1955

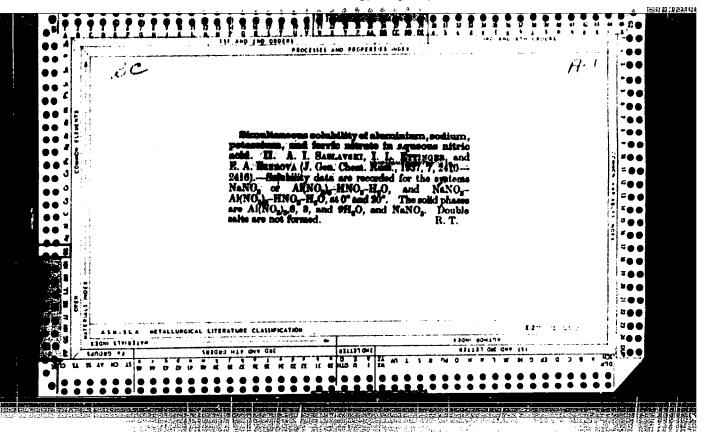
Abstract

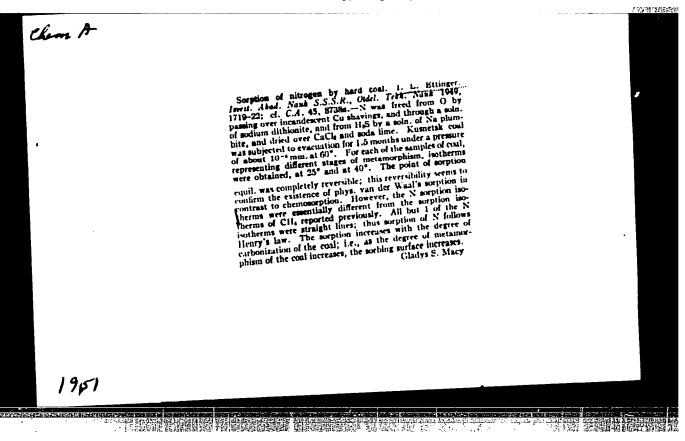
: Describes investigation and experiments on the use of a filter for disinfecting Neva water by hydrogen peroxide. The results of the experiments are presented in a table.

Institution: Leningrad Scientific Research Institute, Academy of Municipal Services im. K. D. Pamfilov

: S 9, 1954 Submitted



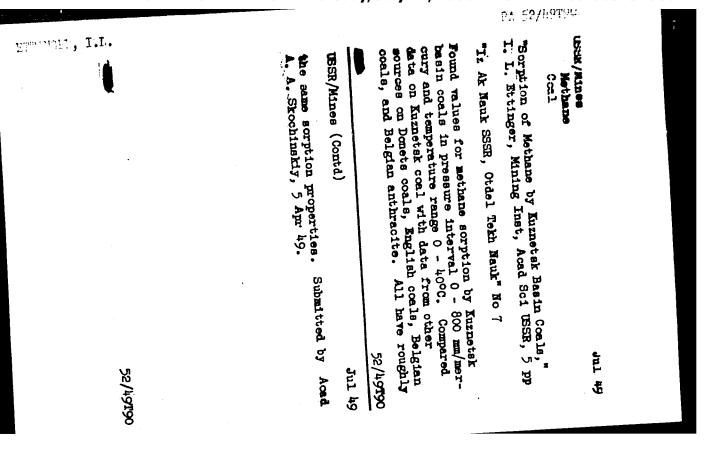




ETTINGER, I. L.	of subject. Illustrates how the dangemethane, can be converted into a useful product by proper measures.	USSR/Geology (Contd)		Discusses (1) nature of gases and their occurrence in carboniferous deposits, (2) gas formation in mine shafts, (3) prevention of gas in mines, (4) problem of forecasting gas abundance in mines, (5) controlling gas formation in mines, and (6) utilization of gases. Discusses historical background	"Prirode" No 4	"Gases of Coal Deposits," G. D. Lidir Ettinger, 10 pp	USER/Geology Coal Gas	
57/ <b>492</b> 46	dangerous gas, useful mineral	Apr 49	57/49r46	formation in in mines, (4) to mines, (5) to mines, (5) and (6) utilical background		Lidin, I. L.	Apr 49	

### "APPROVED FOR RELEASE: Thursday, July 27, 2000

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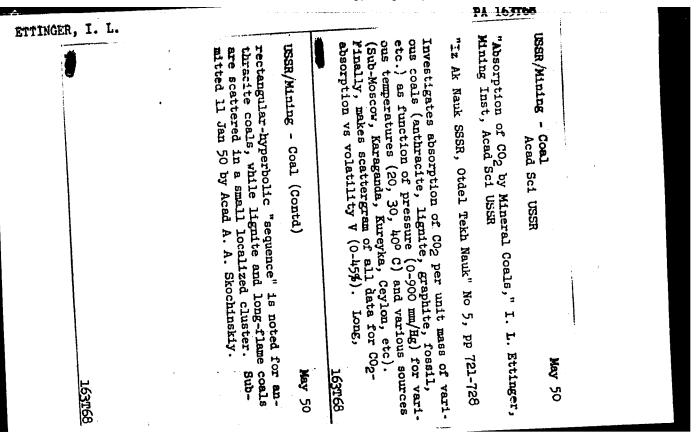
APPROVED FOR RELEASE: Thursday, July 27, 2000 C

CIA-RDP86-00513R00041223(

ETTINGER, I. L.

36113 Vydayushchiysya deyatel\* russkoy nauki akademik A. A. SKochinskiy. (K 75-letiyu so dnya rozhdeniya). Priroda, 1949, No. 11, S. 70-71, S portr.

SO: Letopis' Zhrunal' nykh Statey, No. 49, 1949



ETTINGER, I. L.

168759

# USSR/Mining - Coal, Testing

Aug 50

"Influence of the Moisture Content on Sorption of Methane by Coals," I. L. Ettinger, G. D. Lidin, Inst of Mining, Acad Sci USSR

"Iz Ak Nauk SSSR, Otdel Tekh Nauk" No 8, pp 1198-1203

Studied of methane by dry and moist coals on three samples. Demonstrated: permeability to methane decreases with increase in moisture content; decrease is determined mainly by sorption water. Natural moisture content must be considered when calculating methane-bearing ability of coal seams. Submitted by Acad A. A. Skochinskiy.

168159

ETTENTA, J. I.			₹ 06 <b>7</b> 1 1.5	1
244760	transition from low-metamorphosed gas coals to anthracites. Submitted by Acad A. A. Skochinskiy 20 Aug 51	"Iz Ak Nauk USSR, Otdel Tekh Nauk" No 3, pp 425-452 Discusses sorption capacity of coals in respect to gases, concluding that such capacity is basically determined by magnitude of inner surface, i.e., number of ultra-pores accessible for molecules of gases Development extent of inner surface is result of metamorphic processes in coal bed during geological periods. Sorption capacity of coals increases in	r.	

ETTINGER, I.L.

- 1. METTINGER, I. L.
- 2. USSR (600)
- 4. Coal Analysis
- 7. Index of the tendency of coal to eject suddenly coal and gas. Ugol 27 no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

ETTINGER, I. L.

# USSR/Mining - Coal, Methane

21 Jan 52

"Method for Approximate Calculation of the Sorptive Capacity of Coals in Respect to Methane at Atmospheric Pressure," I. L. Ettinger, Inst of Mining, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXXII, No 3, pp 427-430

Suggest empirical eq for calg methane content of coal at various temps, if values for methane sorption of this coal are known at least for 2 temps. Isobars of methane sorption were plotted for coals of Donets, of methane sorption were plotted for coals of Donets, Karaganda and Kurnetsk basins, and suggested eq is expression describing these isobars. Submitted by Acad A. A. Skochinskiy.

ETTINGER, I.L.; PROTOD'YAKONOV, M.M.

Change of the hardness of coal by saturation with methane. Doklady Akad.
Nauk S.S.S.R. 84, 1235-7 '52.
(CA 47 no.21:11694 '53)

- 1. ETTINGER, I.L.; SHTERENBERG, L.YE.; YABLOKOV, V.S.
- 2. USSR (600)
- 4. Coal
- 7. The relation between the structure of coal seams and the rate of methane yield by coal, Izv. AN SSSR. Ser.geol. no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

NOVIKOV, K.P.; ETTINGER, I.L.

Conference on prevention of spontaneous coal and gas combustion in coal mines. Izv.AN SSSR. Otd.tekh.nauk no.7:1074-1076 J1 '53. (MLRA 6:8) (Combustion, Spontaneous)

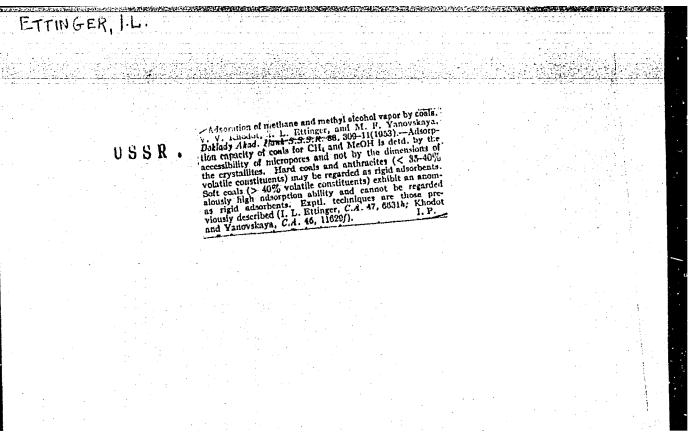
- 1. ETTINGER, I. L.; SHTERENBERG, L. Ye.; YABLOKOV, V. S.
- 2. USSR (600)
- 4. Methacrylic Acid
- 7. Effect of the intensity of stirring on the rate of heterophase polymerization of methylmethacrylate in solution, Zhur. prikl. khim. 26 No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953. Uncl.

ETTIMGER, I.L., kandidat khimicheskikh nauk; SHTEREBERG, L.Ye., mladshiy nauchnyy sotrudnik; YABLOKOV, V.S., kandidat geologo-mineralogicheskikh nauk.

Connection between the structure of coal seams and sudden ejection phenomena. Ugol' vol.28 no.11:28-31 M '53. (MIRA 6:11)

1. Institut geologicheskikh nauk Akademii nauk SSSR (for Shterenberg and Yablokov). 2. Institut gornogo dela Akademii nauk SSSR (for Ettinger). (Coal)



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### "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041223

TETTINGER, I.L.; ZHUPAKHINA, Ye.S.

Initial gas formation rate in coal seams indicating gas and coal outburst hazards. Trudy Inst.gor.dela 1:165-172
'54. (Coal mines and mining) (Mine gases)

(Coal mines and mining) (Mine gases)

ETTINGER, I., kandidat khimicheskikh nauk.

An eutstanding scientist. Mast.ugl. 3 no.7:24 Jl '54. (MLRA 7:7)

(A.A.Skechinskii)

Ettinger, Id.

USSR Chemistry - Coal

Carri 1/1

Publ. 22 - 45/63

Authors

Title

Ettinger, I. L.; Lamba, E. G.; and Adamov, V. G.

The role of gas as a reducer of coal solidity

Periodical :

Dok. AN SSSR 99/6, 1057-1060, Dec 21, 1954

**Abstract** 

Experiments were conducted to determine the causes for coal softening (loss in solidity) under the effect of gas pressures and to explain the connection between solidity reduction of coal and their geological disturbance. Results showed that the softening of coal is connected with their gas absorption and that the change in ca61 solidity in the mass during cut-off ventilation is connected with the increase in partial gas pressure and reduction in intensity of gas descrption from the coal. Eight USSR references (1936-1954). Tables; drawing.

Institution : Academy of Sciences USSR, Mining Institute

Presented by : Academician A. A. Skochinskiy, July 7, 1954

CIA-RDP86-00513R000412230 APPROVED FOR RELEASE: Thursday, July 27, 2000

VESELOVSKIY, V.S.; ETTINGER, I.L., kandidat khimicheskikh nauk, redaktor; KATHENKU, U.A., redaktor; SIMKINA, Ye.M., tekhnicheskiy redaktor.

[Chemical nature of mineral fuels] Khimicheskaia priroda goriuchikh iskopaemykh. Moskva, Izd-vo Akademii nauk SSSR, 1955. 423 p.

(Fuel--Analysis) (MLRA 8:12)

(Mineralogical chemistry)

E++/NGER, I.L.
USSR/Fuels -- Coal

FD-2623

Card 1/1

: Pub. 41-9/21

Author

: Lamba, Ye. L. and Ettinger, I. L., Moscow

Title

: Measurement of the sorptional properties of coal during its

oxidation

Periodical

: Izv. AN SSSR, Otd. Tekh. Nauk 4, 110-119, Apr 1955

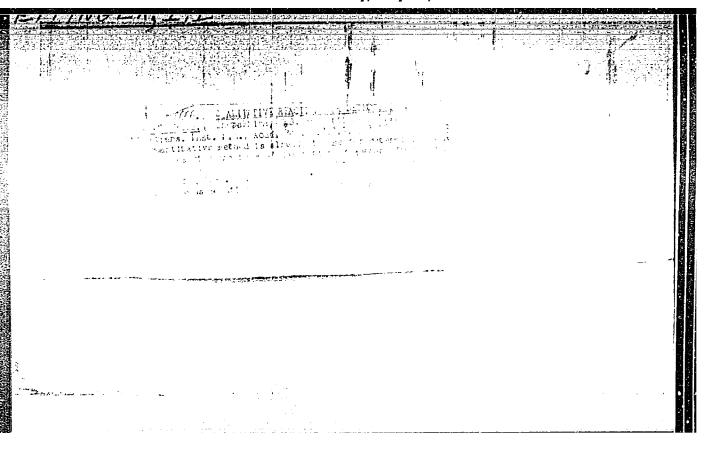
Abstract

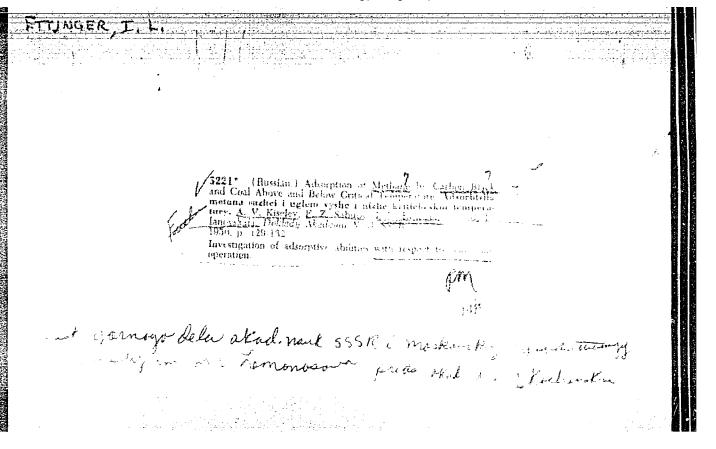
: Studies the reasons for the changes in gas separation indices. Takes into account the fact that in newly developed coal basins the specimens do not undergo laboratory investigation immediately upon uncovery. Examines the rate of desorption of methane during coal storage. Describes method of determining initial degree of gas separation. Proposes reasons for the decrease in the gas separation index of coal during storage. Lists properties of coal taken from various mines and regions. Graphs, tables. Ten

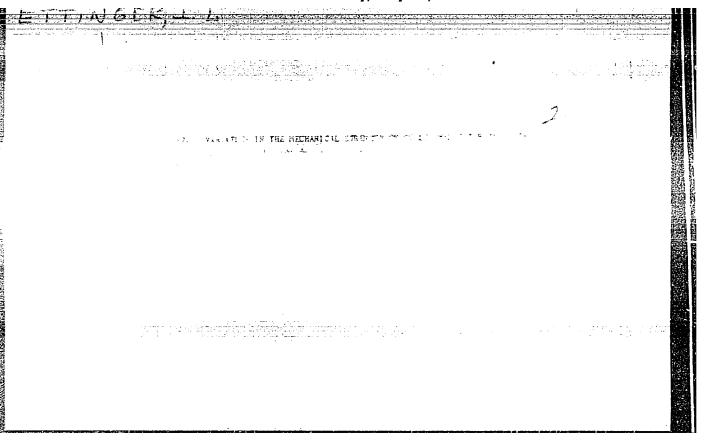
references, 9 USSR.

Institution

Submitted: November 22, 1954







Gas Medium in Coal-Breaking Destruction Processes. the same time. The authors investigated the solidity of more than 100 samples and of 5 different types of derangement of the structure in the air,  $\rm CO_2$  and  $\rm OH_4$  under pressure of 40 atm.over pressure. The physical adsorption for  $\rm CO_2$  and  $\rm CH_4$  is characterizing. The quantity of dust developing on the occasion of crushing the coal was measured in all of the three gases. From ill.1 it is evident that solid sorts of coal have less micro-craks and therefore their solidity is not injured by gases. Weak and easily crushable coals, on the other hand, are weakened even more by the action of CH4 and CO2. II1.2 shows (in semilogarithmic coordinates) the average distance between micro-cracks and the dust development in CO2. On the occasion of a mechanical influence on coal in gas mediy also the micro-cracks, with the exception of influences on large surfaces, have an effect. If such preliminary derangement is lacking, the gas alone is not able to produce new cleavage planes between coal and gas and thus to promote the destruction of the coal along these planes. Methane has a similar, though weaker effect than CO2. In the seam the coal is saturated with gas. Here the gas has no weakening effect but prevents the hardening of the coal. A very fine methane cover (nearly 100% methane) is blown away on the occasion of active ventilation. Although the methane supply from deeper layers intensifies, it stays behind the escaping of gas. The gas pressure in the exterior coal layers decreases, the decomposing gas-effect int the micro-craks dimini-

Card 2/4

Ettinger, I.L.

AUTHOR:

Ettinger, I.L.,

20-5-28/54

TITLE:

Variation in the Sorption Properties of Genetic Series of Possile Coals (Izmeneniye sorbtsionnykh svoystv v geneticheskikh ryadakh iskopayemykh ugley)

PERIODICAL:

Doklady Akad. nauk SSSR, 1957, Vol. 115, Nr 5, pp. 953-956, (USSR)

ABSTRACT:

Most of the coal deposits are saturated with gas. The role of the sorption energy, which causes the gas concentration on the surface of coals is importent for the creation of a balance between coal and gas. In the course of the conversion process of coal substances which was different in the various coal deposits, the sorption activity of fossile coals also changes. The change affects the binding character of coal and gas and the gas-saturation of coal layers, i.e. the potential factors which decide the emittance of gas in mines. Therefore it is very important to define the mathematical interrelationship, the change of sorption properties with the origin of pit coals and their metamorphism. The author studied about 250 samples of the major coal deposits of the U.S.S.R. He analyzed them and found a sorption capacity for methane at 300 of temperature and 1 atm of pressure. The connection between this capacity and yield of volatile substances is shown in figure 1 (for CH<sub>4</sub>) and figure 2 (for CO<sub>2</sub>). The genetic processes in coals lead into different directions and overlap one another. Their sorption properties change in a simular way. This all brings about

Card 1/3.

Variation in the Sorption Properties of Genetic Series of 20-5-28/54
Fossile Coals.

with the yield of volatile substance of 35-40% cannot be explained by the dispersion of the results of the experiments. It is a fact that in the above mentioned range field the increase of the sorption property takes place independently of the main direction; this confirms the fact that the series of molecular association in the Moscow- and Central Asian brown coals are parallel to the series of pit coals, thanks to the overlapping by the factor of subterranean oxidation. If the adsorption of brown coal (bituminous coal) and long-flame-coal is of importance it is necessary to define also their natural activation through a change in the chemical composition. The existence of 2 directions in the diagram "yield of volatile substances - sorption capacity", however, shows no significant dispersion in the results of experiments. They can only be explained by the fact that, apart from the natural factors which activate coals, there exist also such as have a contrary effect. There are 2 figures and 7 Slavic references.

PRESENTED BY: Skochinskiy, A. A., Academician, March 19, 1957

SUBMITTED: March, 19, 1957

AVAILABLE: Library of Congress

Card 3/3

SKOCHINSKIY, A.A., akad.; KHODOT, V.V., kand. tekhn.nauk,; GMOSHINSKIY, V.G., st. nauchnyy sotrudnik, kand. tekhn.nauk,; LIPAYEV, Yu. A., ml. nauchnyy sotrudnik,; PREMYSLER, Yu.S., ml. nauchnyy sotrudnik,; ETTINGER, I.L., st. nauchnyy sotrudnik, kand. khim.nauk,; YANOVSKAYA, M.F., st. nauchnyy sotrudnik, kand. tekhn. nauk,; NIKOLAYEV, V.F., red. izd-va,; PROZOROVSKAYA, V.L., tekhn. red.; IL'INSKAYA, G.H., tekhn. red.

[Methane in coel beds] Metan v ugol'nykh plastakh. Moskva. Ugletekhizdat. 1958. 255 p. (MIRA 11:12)

1. Rukovoditel' Imboratorii vnezapnykh vybrosov Instituta gornogo dela AN SSSR (for Khodot). 2. Imboratoriya prognoza i upravleniya gazovydeleniyam Instituta gornogo dela AN (for Ettinger).

(Methane)

(Coal)

ETTINGER, I. L.

"The Sorption Properties and Structure of Fossil Coals."

paper to be submitted for the Symposium on the Nature of Coal, Dhanbad, India, 7-9 Feb 59.

(Inst. of Mining, Acad. Sci. USSR, Moscow.)

5(2) SOV/32-25-4-29/71 AUTHORS: Ettinger, I. L., Zhupakhina, Ye. S.

y many - mangani demonstrativa nagarapay nagarapay

TITLE: New Methods of Determining the True and Apparent Specific Weights of Porous Bodies (Novyye metody opredeleniya istinnogo

i kazhushchegosya udel'nykh vesov poristykh tel)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 453-455 (USSR)

ABSTRACT: For determining the apparent specific weight, i.e. the weight

of 1 cm<sup>2</sup> of a porous body including the pores, conditions must be established which absolutely prevent the pycnometrical medium from entering the pores. In the present case, a method of this kind was developed for coals and bitumina. The pycnometrical liquid is water with 0.05-0.1% of the wetting agent OP-7, which reduces the surface tension at the water-air boundary from 73 to 33 erg/cm<sup>2</sup>. OP-7 is a mixture of polyethylene glycol monoalkylphenyl esters. The results of determination obtained by the described method, and with helium are given for 12 samples of different coal types (with a content of 1.7-44.5% volatile component) (Table 1). The method is

Card 1/2 applied in the Vsesoyuznyy nauchno-issledovatel skiy dorozhnyy

SOV/32-25-4-29/71

New Methods of Determining the True and Apparent Specific Weights of Porcus

institut (All-Union Scientific Research Institute of Roads) by A. S. Kolbanovska and L. I. Yefimova for bituminous materials with the difference that the sample is not heated on the water bath but is left in the vacuum exsiccator in the pycnometrical liquid at room temperature. For determining the apparent specific weight, the method of silanization was tested on coals (Ref 3). It is found that an excessive silanization reduces the accuracy of determination; for soft coal types the result is the higher, the longer the silane condensation is carried on. The latter is assumed to be due to a possible compression of the soft, loose coal structure. A comparison between the results of measurement by the described method and geometrical measurements (Table 2) shows that the maximum difference is 1%. There are 2 tables

and 3 Soviet references.

Institut gornogo dela Akademii nauk SSSR (Institute of Mining ASSOCIATION:

of the Academy of Sciences USSR)

Card 2/2

MENKOVSKIY, Mikhail Abramovich, prof.; ETTINGER, I.L., otv.red.; GARBER,
T.N., red.izd-va; BERESLAVSKAYA, L.Sh., tekhn.red.; LOMILINA,
L.N., tekhn.red.

[Chemistry in coal mining] Khimiia v ugol noi promyshlennosti.
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1960.

151 p.
(Coal mines and mining) (Chemistry, Technical)

ETTINGER, Iosif L'vovich; OKHRIMENKO, V.A., otv. red.; MINSKER, L.I., tekhn. red.; SHKLYAR, S.Ya., tekhn. red.

Properties of coals affecting mine safety] Svoistva uglei, vliiaiushchie na bezopasnost' truda v shakhtakh. Moskva, Gos. nauchno-tekhm. izd-vo lit-ry po gornomu delu, 1961. 95 p. (MIRA 14:8)

(Coal mines and mining-Safety measures)

AGROSKIN, Anatoliy Abramovich, prof.; ETTINGER, I.L., otv. red.; GARBER, T.N., red. izd-va; BOLDYREVA, Z.A., tekhn. red. [Coal chemistry and technology] Khimiia i tekhnologiia uglia. Mo-skva, Gos. nauchno-tekhn. izd-vo lit-ry po gornomu delu, 1961.

(MIRA 14:10)

(Coal)

251 p.

ETTINGER, I.L. (Moskva)

Natural deactivation of coals as sorbents. Izv. AN SSSR. Otd. tekh. nauk. Met. i topl. no.6:159-167 N-D '61. (MIRA 14:12) (Coal geology) (Scrbents)

ETTINGER, I.L.; AFANAS'YEVA, A.I.; YEFIMOVA, I.N. Effect of contact metamorphism on the sorption properties of Noril'sk coals. Gor. i ekon. vop. razrab. ugol'. i rud. mest. no.1:241-246 '62. (MIRA 16 (MIRA 16:7)

(Noril'sk region--Coal) (Sorption)

#### ETTINGER, I.L.

Changes in the structure of extracted coal during its natural activation. Dokl. AN SSSR 142 no.1:196-199 Ja 162. (MIRA 14:12)

1. Institut gornogo dela im. A.A. Skochinskogo AN SSSR. Predstavleno akademikom L.D. Shevyakovym.

(Coal) (Sorption)

ETTINGER, I.L.; MATVIYENKO, N.G.; SHERSHUKOV, V.Y.

Increase of the sorption activity of coals of the Noril'sk deposit caused by an ore-bearing intrusion. Dokl.AN SSSR 148 no.41925-928 F \*163. (MIRA 16:4)

1. Institut gornogo dela im. A.A.Skochinskogo. Predstavleno akademikom L.D.Shevyakovym.

(Noril'sk region—Coal geology) (Sorption)

LAMBA, Ye.G. (Moskva); ETTINGER, 1.1. (Moskva); ADMOV, V.G. (Moskva)

Determining the methane content of native coals at pressures up to 50 at. Izv. AN SSSR Met. i gor. delo no.2:18S-19I Mr-Ap'64 (MIRA 17:8)

1. Institut gornogo dela imeni A.A. Skochinskogo.

ETTINGER, I.L. (Moskva); SULLA, M.B. (Tula)

Gas content in brown coals and gas liberation in Moscow Basin mines. Izv. AN SSSR. Met. i gor. delo no.5:159-166 S-0 '64.

(MIRA 18:1)

1. Institut gornogo dela imeni A.L.Skochinskogo i Tul'skiy gornyy institut.

ETTINGER, I. L.; YEREMIN, I. V.; ZIMAKOV, B. M.; BAKALDINA, A. P.

Sorption properties of various petrographic components of fossil coals. Dokl. AN SSSR 155 no. 2-364-367 Mr '64. (MIRA 17:5)

1. Institut gornogo dela im. A. A. Skochinskogo, Moskovskiy geologorazvedochnyy institut im. S. Ordzhonikidze i Institut geologii i razrabotki goryuchikh iskopayemykh. Predstavleno akademikom N. V. Mel'nikovym.

ETTINGER, I.L.; DYITRIYEV, A.M.; BOGDANOVA, Ye.M.; VOYTOV, G.I.

Some characteristics of the sorption properties of the anthracite of the eastern Donets Basin. Dokl. AN SSSR 156 no. 5:1099-1101 Je 164. (MIRA 17:6)

l. Institut gornogo dela im. A.A.Skochinskogo. Predstavleno akademikom N.V.Mel'nikovym.

ETTINGER, I.L.

Natural equilibrium system "coal - methane" and the methods for its study. Usp. khim. 34 no.7:1185-1198 J1 '65.

(MIRA 18:7)

1. Institut gornogo dela imeni A.A. Skochinskogo.

ETTINGER, I.L.; CHAPLINSKIY, A.; LAMBA, Ye.G.; ADAMOV, V.G.

Comparative sorption capacity of fossil coals as compared to carbon dioxide gas ans methane under pressures ranging up to 40 atm. Dokl. AN SSSR 161 no.1:214-217 Mr 165.

(MIRA 18:3)

1. Submitted July 4, 1964.

LIDIN, G.D.; ETTINGER, I.L.; YEREMAN, 1.V.

Gas composition and capacity of coals in the weathering zero of coal deposits. Dokl. AM SSSE 160 no.6:1392-1395 F 1.5.

(HIRA 18:2)

1. Institut gornogo dela im. A.A. Skochinskogo i Institut geologii i razrabotki goryuchikh iskopayemykh AN SOSK. Submitted July 4, 1964.

## ETTITGTR, K.

Radiotelephone on decimetric w ves. p. 13

RIDICAMATOR. Marszaua, Poland. Vol. 5, no. 11, Nov. 1905.

Monthly List of Fast European accession ( FAI), IC. Vol. 8, Mc. 9, September, 1959. Uncl.

## ETTINGER, K.

Ultrashort-wave resonance meter. p. 5.

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SOURCE: East Furopean Accessions List (EEAL) Vol. 6 No. 4 April 1957

ETTINGER, K.

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Vol. 6, No. 10, Oct. 1956. RADIOMATOR TECHNOLOGY Warszawa, Poland

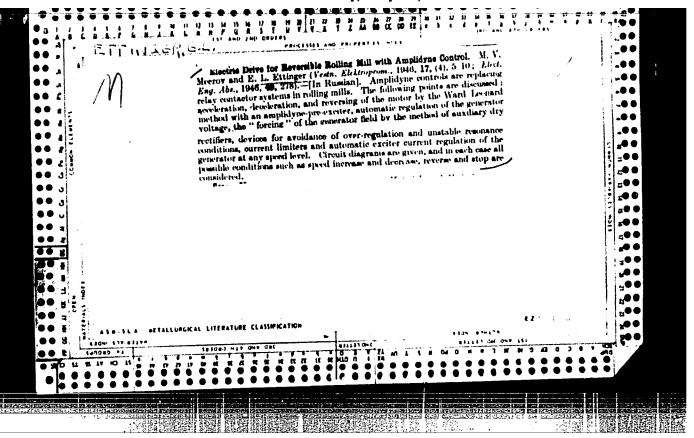
So: East European Accession, Vol. 6, No. 2, Feb. 1957

ETTINGER, K.W., MOSCICKI, W.

Observation of the thermoelectrons by means of Geiger-Muller counters. Acta physica Pol 22 no.1:129-132 J1 62.

1. 1st Department of Physics, Technical University, Gdansk.

COUNTRI CATEGORI	: Rummie h=5						
ABS. JOUR.	: RZKhim., No. 1959, No. 86550						
AUTHOR INST. TITLE	Estinger, V.; Manasca, S.; Dinectorest, M.L.  Disinfectant nation of mesicual Chaptine						
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studies. It	: Presentation of results of laboratory is noted that the distribution decision of Signature and interpresence of exhaustions; from duthors; subjects						
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PAA.7T39

ETTINGER, YE. L.

Jan 1948

UBSE / Electricity Concertors, Amplidyne Amplifiers, Power

"Amplification Coefficients of Amplidynes in Electric Drive Regulation Systems," Ye. L. Ettinger, tric Drive Regulation Systems," Ye. L. Ettinger, Candidate Tech Sci, All-Union Elec Engin Inst imeni

"Vest Elektro-Prom" No 1

Discusses the question of the amplification coefficient of amplidynes. DC generator has two types of coefficients of amplification: coefficient of power amplification, and coefficient of voltage amplification. Comes to several solutions for automatic electric drive systems with amplitude regulation.

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	"Static Calculations of the Regulation Accuracy of Electrical Drives With Electromechanical Boosters," Is. L. Etinger, Cand Tech Sci, All-Union Elec Tech Enst imeni V. I. Lenin, Moscow, 6 pp. "Yest Elektro-From" No 6 - 177-13-14	Treats subject under following headings: (1) basic elements of a system controlled by an electric drive; (2) series connection of the circuits; (3) resistance and potentiometer circuits; (4) regulation 12/49725		accuracy and amplification factor of the system; (5) effect of temperature on armature windings; and (6) alteration of standard voltage.	
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ETTINGER, Ye. L.

"The Use of Controlled Mercury-Arc Revtifiers for Electric Drives," reported in the article "First All-Union Scientific and Technical Session on Mercury-Arc Rectifiers," Elektrichestvo, No. 11, 1949.

Candidate of Technical Sciences, of the "Elektroprivod" Trust.

Abstract W-9395, 10 Apr 1950

ETTINGER, YE. L.

USSR/Electricity - Regulation Control Systems Nov 50

PA 171149

"Method of Relative Units Applied to Calculating Precision of Regulation of Static Systems in a Steady State," Ye. L. Ettinger, Cand Tech Sci, Elektroprivod Trust

"Elektrichestvo" No 11, pp 57-63

Introduces concept of amplification factor for relative changes and examines many problems relating to precision in regulation. Submitted 19 Nov 49.

171749

ETTINGER, E. L.	***************************************			
	B. T. R. V. 3 No. 3 Mar. 1954 Mining - Engineerin	3969. The Connection Between Layers and the Phenomenon of Sud and Rock. (Russian.) L. L. Ettinger V. S. Lablokov, Ugol. 1953, no. 11, p. Discusses necessity of recognizing strulayers and their importance in rock ext. 4 ref.	the Structure of Coal den Extrusion of Gasses, J.L. E. Shterenberg, and 28-31. actural changes in certain rusions. Diagrams, tables.	
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ETTINGER, YE. L

AID P - 2000

Subject

: USSR/Electricity

Card 1/2

Pub. 27 - 4/31

Authors

Ettinger, Ye. L., Kand. of Tech. Sci., Chalyy, G. V., Eng., and Grukh, Ye. M., Eng.

Title

: Experimental installation of an electronic excitation

system at a high capacity hydroelectric power station

Periodical: Elektrichestro, 4, 16-23, Ap 1955

Abstract

: The authors describe a system with mercury rectifiers used for the excitation of a 55,000-kw water-wheel generator at one of the Mosenergo hydroelectric power

stations. Similar installations were tested for a 3,000-kw turbogenerator at a Mosenergo steam electric power station, and for a 30,000-kwa synchronous confenser. The tests confirmed the high qualities of

field control with metal tank mercury arc rectifiers, namely: a) the high rate of a-c voltage response; b) the rapid exciter field extinction (in less than 1

sec) without breaking the winding circuit;

Elektrichestro, 4, 16-23, Ap 1955

AID P - 2000

Card 2/2 Pub. 27 - 4/31

c) an increase of the "rigidity" (continuity of response) of the regulation system, and d) the high dependability, simplicity and ease of operation of the system. Fifteen photographs and diagrams.

Institution: - Trust "ELEKTROPRIVOD" and plant "URALELEKTROAPPARAT".

Submitted: N 26, 1954

AID P - 3261

Subject

: USSR/Electricity

Card 1/2

Pub. 27 - 16/25

Authors

: Ettinger, Ye. L., Kand. Tech. Sci., and Yu. A. Shmayn, Eng.

Title

: Using current transformers for measurements in networks with

rectifiers

Periodical

: Elektrichestvo, 9, 71-73, S 1955

Abstract

the authors demonstrate that under certain conditions secondary currents of current transformers may considerably differ from primary ones due to the saturation of the core. They give some examples of tests with transformers with cores made of a permalloy type of material and cores of steel. They found that the permalloy type transformers (the MT-1 and UTT-5 types) are not suited for measurements in rectifier circuits at 50 cycles, while those with steel cores (of TNF-20/5 type) give relatively small errors. Three diagrams.

AID P - 3261

Elektrichestvo, 9, 71-73, S 1955

Card 2/2 Pub. 27 - 16/25

Institution : "Elektroprivod" and the Central Scientific Research Electrical

Engineering Laboratory of the Ministry of Electric Power Stations.

Submitted: Mr 14, 1955

ETTINGER, Ye.L., kandidat tekhnicheskikh nsuk; RETMGOL'D, Yu.R., inzhener.

Experimental investigation of the dynamic characteristics of the rotary amplifier and the calculation of its parameters. Elektrichestvo no.3:13-23 Mr \*56. (MIRA 9:6)

1.TeKB "Elektroprived" Ministeratvo elektropromyshlennosti.
(Rotating amplifiers)

ETTINGER, Jak, kandidat tekhnicheskikh nauk; GÜTKIN, B.M., kandidat tekhnicheskikh nauk; Borodavchenko, P.M., inzhener.

Present-day systems of rectifier drives. Elektrichestvo no.9: 32-38 S '56. (MLRA 9:11)

1.TSentral now konstruktorskoye byuro "Elektroprivod" Ministerstva elektropromyshlennosti.

(Mercury-arc rectifiers)

GLUKH, Ye.M.; CHALYY, G.V.; ETTINGER, Ye.L. Ionic system for the excitation of hydrogenerators. Elektrosila no.14:35-40 '56. (MIRA 12:12) (Electric generators)

GUTKIN, B.M., kandidat tekhnicheskikh nauk; ETTINGER, Ye.L., kandidat tekhnicheskikh nauk.

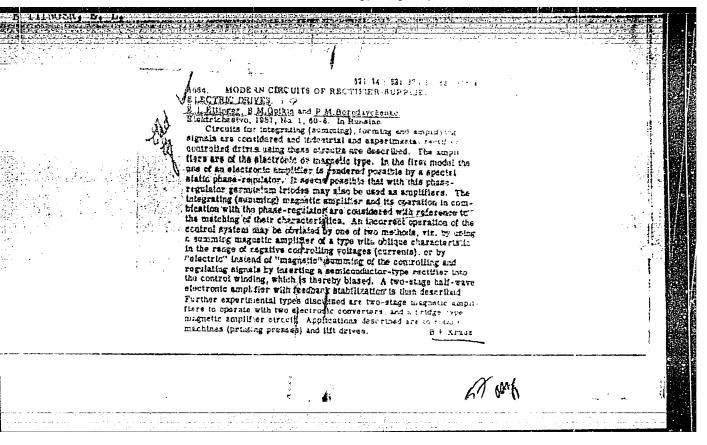
Peak choke for regulating electronic instruments. Vest.elektroprom. 27 no.1:26-32 Ja 156. (MIRA 9:6) (Electronic apparatus and appliances)(Electric controllers)

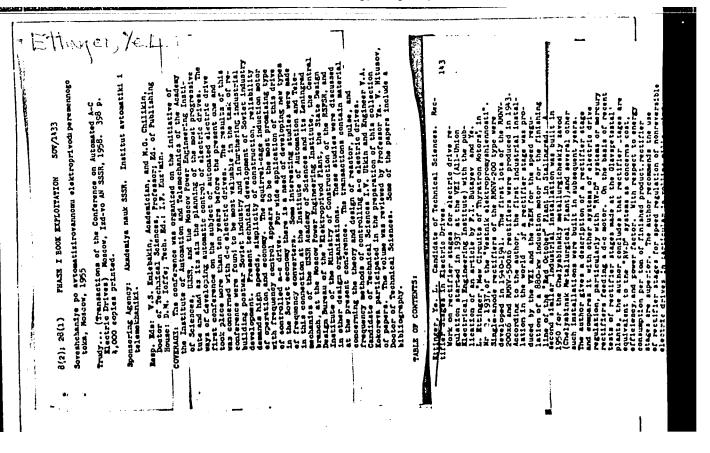
CHALTY, G.V., inzhener; ETTIMOER, Ye.L., kandidat tekhnicheskikh nauk; GIUER, Ye.M., inzhener.

Electronic exciter for generators at the Kuybyshev Hydroelectric Power Station. Vest. elektroprom.27 no.2:40-50 F 156. (MLRA 9:7)

1.TSentral noye konstruktorskoye byuro. "Elektroprivod" Ministerstva elektropromyshlennosti.
(Electric generators)

## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041223





AUTHORS: Ye.L. Ettinger, G.V. Chalyy, Ye.M. Glukh, Ya.N. Shtrafun, P.M. Ipatov, (Candidates of Technical Sciences), and

Yu.A. Shmayn, (Engineer).

TITLE: Valve Excitation of Synchronous Alternators and

Compensators (Ventilinoye vozbuzhdeniye sinkhronnykh

generatorov i kompensatorov)

PERIODICAL: Vestnik elektropromyshlennosti,1959,Nr 7,pp 41-48 (USSR)

ABSTRACT: Discharge-valve exciters provide a cheap means of improving the stability of supply from power stations. Grid-controlled rectifiers can easily give four- or five-fold field-forcing with very high rates of voltage rise and low control power. This is particularly useful in hydro-electric power stations. By using regulators that respond to the power and to its rate of change in combination with high-speed excitation the stability of hydro-alternators can be greatly increased without having greatly to reduce the machine reactance or increase its flywheel effect. High-speed excitation is less essential in turbo-generators working on shorter transmission lines

Card 1/9 but machine exciters are already becoming unsatisfactory, because with unit outputs of 200 - 300 MW the field

sov/110-59-7-10/19

Valve Excitation of Synchronous Alternators and Compensators current can be up to 3000 A at about 500 V. difficult to design shaft-driven exciters of this rating with double forcing. On the other hand, separatelydriven exciters are much less reliable, so that rectifier excitation is to be preferred. Rectifier exciters also offer advantages for synchronous condensers. independent excitation circuits as shown in Fig la the rectifier is supplied from a separate alternator usually mounted on the main alternator shaft. The application of this system to a hydro-alternator is shown in the lefthand side of the composite drawing in Fig 2; the righthand side shows an alternator with an ordinary machine exciter. The alternator field current is regulated by Self-excitation circuits grid control of the rectifier. for alternators are shown in Figs 1b, v and g. The first is analogous to shunt excitation of a d.c. generator: the other two correspond to compound excitation of a d.c. generator. These circuits use voltage-boosting transformers, their primaries connected in series with Card 2/9 the generator output. The transformers have large airgaps so that the secondary voltage is proportional to the

Card 3/9

SOV/110-59-7-10/19 Valve Excitation of Synchronous Alternators and Compensators primary current. The voltages on the anodes of the rectifiers are proportional to the geometrical sum of the voltages on the generator busbars and on the secondary windings of the booster transformers. main generator field is mainly regulated by grid control. A fourth circuit, shown in Fig 14, has been developed to reduce the number of rotating machines. It is an independent excitation circuit with self-excitation of the auxiliary generator. This circuit has the advantage that the auxiliary generator has no exciter and so is smaller, but starting conditions are somewhat more complicated. When parallel self-excitation is used, the voltage applied to the rectifiers falls on the occurrence of the short-circuit. However, when high-speed protection and circuit-breakers are used, field-forcing may be delayed until the short-circuit is cleared without impairing in practice the dynamic stability of the generator. For such cases, the circuit of Fig 1b may be used, but special steps must be taken to provide auxiliary supply to the rectifiers during short-circuits.

This system is likely to be used for synchronous

Valve Excitation of Synchronous Alternators and Compensators condensers and for alternators operating on relatively short transmission lines. For the highest dynamic stability making the fullest use of field-forcing, the shunt circuits of Figs ly and s should be used. When a short-circuit occurs the booster transformers give additional voltage which ensures the necessary field-The costs of the different systems are briefly compared. In all the above-mentioned circuits, the valves may be connected in different ways. If the field-forcing factor is not greater than  $2\frac{1}{2}$  it will probably be advisable to use ordinary rectifier circuits, as shown in Figs 3a, b and v. In the circuits of Figs 3s and d, valves connected to tappings from part of the secondary winding of the rectifier transformer provide generator excitation under normal conditions; and valves supplied by the whole secondary winding of the rectifier transformer provide field-forcing. Circuits with two series-connected groups of valves are shown in Fig 32. Here the valves are divided into a cathode group and an anode group. If these are suitably controlled it may be arranged that, Card 4/9 under normal conditions of operation, the anode group of

Valve Excitation of Synchronous Alternators and Compensators valves is almost fully open and the cathode group operates under invertor conditions so that its rectified voltage is negative. The overall rectified voltage is the algebraic sum of the voltages of the anode and cathode groups. During field-forcing both groups are fully open and during field suppression both groups operate under invertor conditions. The different methods of connecting the valves affect the output of the supply The different methods of transformer or auxiliary generator, the r.m.s. and peak values of the value current and the back voltage on the valve. The graphs in Figs 4 and 5 show curves of the relationship between the output of the transformer or auxiliary generator and of the back voltage on the valve under normal conditions as a function of the field-forcing factor for various valve supply circuits. With high forcing-factors the circuit with two groups of valves connected in parallel or series is best. Considerations governing the choice of the circuit are briefly described. Rectifier grid control circuits are then described. Gridcontrol phase regulators may be of the induction or static Card 5/9 types. The latter comprise a bridge, two arms of which

Valve Excitation of Synchronous Alternators and Compensators are formed by transformer windings, the third by a constant resistance and the fourth by a variable inductance which is a saturating choke. The phase angle is varied by altering the auxiliary excitation of the choke, which may be done directly by the automatic voltage controller of the generator. Rectifier exciters require very little control power and are practically without inertia and so the automatic voltage controllers may be relatively simple. Test results with rectifier excitation are then described. Extensive tests were made on a 55 MW hydro-alternator using various circuits for considerable periods, and good agreement was found between test results and design figures. The rate of rise of field voltage during forcing is of the order of 75 - 80 kV/sec, and the maximum voltage is reached in less than a single cycle of the power frequency, as will be seen from the oscillogram drawn in Fig 5. The be seen from the oscillogram drawn in Fig 5. oscillogram in Fig 7 relates to field-forcing and suppression on a hydro-alternator of the Volga power station: the high operating speed will be noticed. Field suppression by operating the rectifier under Card 6/9

Valve Excitation of Synchronous Alternators and Compensators invertor conditions ensures rapid reduction in the generator field without any switching in the rotor circuit; an oscillogram for this case is shown in Fig 8. Those in Figs 9 and 10 relate to sudden loading and unloading. Developments in the manufacture of semi-conductor rectifiers may lead to their use for machine excitation particularly if a reliable source of Three-phase inductoralternating current is available. type high-frequency generators (400 - 500 c/sec) for induction heating or machines with permanent magnet rotors may be used as such sources of reliable supply. Fig 11 shows the schematic circuit diagram of an experimental installation for exciting a 30 MW turboalternator. The high-frequency alternator has two field windings on the stator; the main winding is self-excited. The auxiliary winding is supplied independently from an auxiliary high-frequency exciter with permanent magnet rotor and is intended for initial excitation, adjustment of the system and additional excitation during forcing. The operation of the circuit is described. Prolonged tests on the equipment revealed its good static and Card 7/9

Valve Excitation of Synchronous Alternators and Compensators

dynamic characteristics. Tests with short-circuits on the generator terminals were made at reduced voltage to determine the compounding effect of the free current in the rotor. The rate of rise of voltage on the rotor sliprings was 8 times the initial value per second. development of high-frequency generators for use with semi-conductor rectifier systems has resulted in designs which may be used as auxiliary generators in systems with valve rectifiers. The largest hydro-alternators are now being designed with valve excitation. Valve and semiconductor rectifier systems are being developed for the excitation of turbo-alternators of 200 and 300 MW. New synchronous condensers of 75 MVA are provided with valve rectifier excitation. Further developments are expeto include the use of air-cooled pumpless rectifiers, Further developments are expected improved grid control circuits and new automatic field regulators with amplidynes and transistors replacing valves and thyratrons. Further experience with rectifier excitation is still required but it can already be concluded that the use of high-speed excitation systems

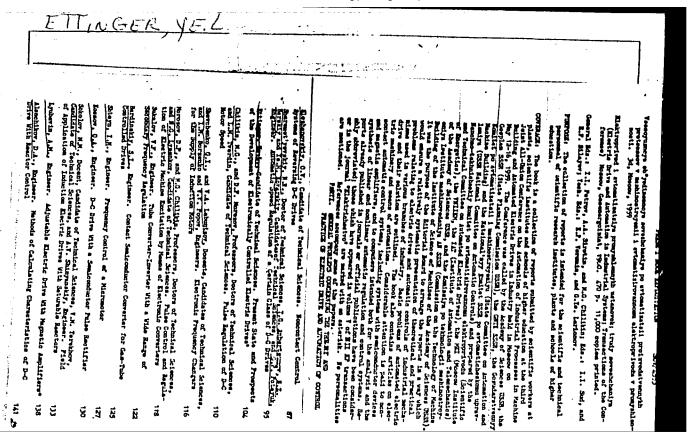
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Valve Excitation of Synchronous Alternators and Compensators

on synchronous alternators and condensers operating on long transmission lines increases the power throughput by approximately 10%. The size and weight of hydroalternators may be reduced when these exciters are used, so cutting the cost by 20%.

There are 11 figures and 8 Soviet references.

Card 9/9



S/194/61/000/007/050/079 D201/D305

**AUTHORS:** 

Ettinger, Ye.L. and Ivanova, M.I.

TITLE:

Equalizing currents in reversible gas-filled conver-

ters

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 7, 1961, 24, abstract 7 El46 (Vestn. elektroprom-sti., 1961, no. 1, 57-59)

TEXT: The equalizing current YT (UT) loads both the rectifier and transformer windings resulting in additional losses. They are limited by chokes, serving also in certain cases as filters for the rectified current ripple. Methods are given for evaluating the equalizing currents and choosing the parameters of chokes for limiting them. The expression for the effective value of the equalizing current  $T_{\rm eff}$  is given as  $T_{\rm eff} = V_{\rm o}k/\omega L$  where  $V_{\rm o}$  - the phase voltage of the transformer,  $\omega$  - angular frequency, L - inductance, k - a factor determined from the curves produced and depending on the reg-

Card 1/2

Equalizing currents...

S/194/61/000/007/050/079 D201/D305

ulation angle of the rectifying system for different converter circuits. The circuit inductance required for limiting the equalizing current is determined from the given allowable value of current and from k. Two variants of choke design are possible: 1) When the chokes do not saturate at the max. working currents and 2) When they are not saturated by the equalizing current, but are saturated by the working current. Variants of circuits are given of reversible converters. 

Abstracter's note: Complete translation

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## "APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041223

Equalizing curr 32 no.1:57-59	ents in reversive id Ja 161. (Electric current de la company)	Vest. elektroprom. (MIRA 14:3)
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GLUKH, Ye.M., kand.tekhn.nauk; ETTINGER, Ye.L., kand.tekhn.nauk; CHALYY, G.V., kand.tekhn.nauk; SHMAYN, Yu.A., inzh.

Testing of the fonic self-excitation system of a large hydro-

Testing of the fonic self-excitation system of a large hydrogenerator. Vest. elektroprom. 32 no.11:4-9 N '61. (MIRA 14:11) (Turbogenerators)

ETTINGER, Ye.L., kand.tekhn.nauk

Features of the development of large ionic drives.

Vest. elektroprom. 33 no.10:1-10 0 '62. (MIRA 15:9)

(Electric driving)

(Electric current rectifiers)

GLUKH, Ye.M., kand.tekhn.nauk; ZEMLYANOY, Yu.M., inzh.; ETTINGER, Ye.L., kand.tekhn.nauk

Ionic exciters in the hydrogenerators of the Bratsk
Hydroelectric Power Station. Vest. elektroprom. 33
no.10:15-22 0 '62. (MIRA 15:9)

(Bratsk hydroelectric power station)

(Turbogenerators)

ETTINGER, Ye.L., kand.tekhn.nauk

An electronic drive with a collectorless motor. Elektrichestvo no.2:42-50 F '63. (MIRA 16:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektromekhaniki. (Electric motors)

ETTINGER, Ye.L., kand.tekhn.nauk; GLUKH, Ye.M., kand.tekhn.nauk;

GOL'DIN, R.G., inzh.; TITOV, V.V., kand.tekhn.nauk; NEYMAN, Z.B.,
inzh.

Concerning L.V.Roman's article. Vest. elektroprom. 34 no.1:
62-64 Ja '63. (MIRA 16:1)
(Electric generators) (Rosman, L.V.)

## "APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041223

EWI(1)/EWA(b) 51382-65 UR/0286/65/000/007/0064/0065 ACCESSION NR: AP5010885 AUTHORS: Ettinger, Ye. L.; Bernshteyn, I. Ya.; Anikina, K. V. TITLE: Three-phase rectifier frequency converter. Class 21, No. 169663 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 64-65 TOPIC TAGS: frequency converter ABSTRACT: This Author Certificate presents a three-phase rectifier frequency converter with a supply transformer, limiting reactors in the internal circuit of each phase, ripple filters at the output, and a control system. The control system varies the rectifier opening angles according to a prescribed law and maintains a constant phase shift of 120 electrical degrees between the fundamental harmonics of the secondary voltage of all three phases. To increase the converter power, to decrease the weight and size of the ripple filters, to better utilize the supply transformer, and to simplify the control system, the power rectifiers of each phase of the converter are connected in an antiparallel bridge circuit when all the bridges are supplied from a single common transformer winding (see Fig. 1 on the Enclosure). To reduce the total installed capacity of the limiting reactors, in the alternate design the supply transformer has two Card 1/57

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